

RUBBER COMPOSITION FOR INNER LINER

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Abstract of JP2000034366

PROBLEM TO BE SOLVED: To obtain a rubber composition for inner liner that is inexpensive, can develop well balanced mechanical properties and has excellent air- impermeability by formulating coal ash to diene rubber as a filler. **SOLUTION:** The objective rubber composition for inner liner comprises (A) 100 pts.wt. of at least one of diene rubber selected from natural rubber, butadiene rubber, styrene-butadiene rubber, isoprene rubber and butyl rubber, (B) 5-30 pts.wt. of coal ash with an average particle size of 3-7 μ m. In a preferred embodiment, the component A comprises ≤ 40 pts.wt. of natural rubber and ≥ 60 pts.wt. of butyl rubber. The coal ash is given as a residue after coal is combusted, for example, in a power station or the like. The component B mainly contains silica, alumina, ferric oxide and calcium oxide and preferably the total of these main components amounts to ≥ 90 wt.%. This composition is molded and vulcanized to provide inexpensive and high air-impermeable tires having the inner liner.

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